

CLAIMS

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2  
3 1. A golf club head, comprising: a club head  
4 body having a face wall with a ball striking surface and a  
5 rear surface, a perimeter wall surrounding the face wall and  
6 attached to the perimeter of the face wall, and a unit cel-  
7 lular structure formed separately from the face wall posi-  
8 tioned immediately behind and either engaging or closely  
9 spaced from the rear surface of the face wall.

10  
11 2. A golf club head as defined in Claim 1,  
12 wherein the unit cellular structure is generally planar and  
13 has a forward surface in engagement with the rear surface of  
14 the face wall.

15  
16 3. A golf club head as defined in Claim 1,  
17 wherein the unit cellular structure is generally planar and  
18 has a forward surface spaced rearwardly from the rear sur-  
19 face of the face wall less than 0.100 inches.

20  
21 4. A golf club head as defined in Claim 1,  
22 wherein the unit cellular structure is open over 60 percent  
23 of the area of the unit cellular structure.

1           5.    A golf club head as defined in Claim 1,  
2    wherein the unit cellular structure includes a plurality of  
3    open cells surrounded by other open cells.

4  
5           6.    A golf club head as defined in Claim 1,  
6    wherein the unit cellular structure includes a plurality of  
7    ribs intersected by another plurality of ribs with open  
8    spaced between the ribs.

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10          7.    A golf club head as defined in Claim 1,  
11    wherein the unit cellular structure includes a plurality of  
12    ribs with open spaces between the ribs, at least some of the  
13    ribs having a "T" shaped cross section defined by a first  
14    bar portion and a second bar portion integral with the first  
15    bar portion at approximately the center of the first bar  
16    portion and perpendicular thereto, said second bar portion  
17    facing forwardly toward the rear surface of the face wall.

18  
19          8.    A golf club head, comprising: a club head  
20    body having a face wall with a ball striking surface and a  
21    rear surface, a perimeter wall surrounding the face wall and  
22    attached to the perimeter of the face wall, and a unit cel-  
23    lular structure in the club head body for reinforcing the  
24    face wall and minimizing face wall failure under ball impact  
25    including a generally planar cellular structure formed  
26    separately from the face wall positioned behind and either

1 in engagement or near the rear surface of the face wall,  
 2 said cellular structure having a forward surface either in  
 3 engagement with or spaced closely enough from the rear sur-  
 4 face of the face wall so the rear surface of the face wall  
 5 will engage and be supported by the cellular structure at  
 6 club head speeds under 110 mph.

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 8 9. A golf club head as defined in Claim 8,  
 9 wherein the unit cellular structure is generally planar and  
 10 has a forward surface in engagement with the rear surface of  
 11 the face wall.

12  
 13 10. A golf club head as defined in Claim 8,  
 14 wherein the unit cellular structure is generally planar and  
 15 has a forward surface spaced rearwardly from the rear sur-  
 16 face of the face wall less than 0.100 inches.

17  
 18 11. A golf club head as defined in Claim 8,  
 19 wherein the unit cellular structure includes a plurality of  
 20 ribs intersected by another plurality of ribs with open  
 21 spaced between the ribs.

22  
 23 12. A golf club head, comprising: a club head  
 24 body having a face wall with a ball striking surface and a  
 25 rear surface, a perimeter wall surrounding the face wall and  
 26 attached to the perimeter of the face wall, and a unit cel-

